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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,628	06/23/2005	Tatsuo Yokoi	52433/801 670	
<sup>26646</sup> KENYON & K	7590 08/24/200 ENYON LLP	EXAMINER		
ONE BROADWAY			YEE, DEBORAH	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1742	
			MAIL DATE	DELIVERY MODE
		·	08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/540,628	YOKOI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Deborah Yee	1742			
	he MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for R	• •		·			
WHICHE - Extension after SIX - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DATE is of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. God for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing attent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. tely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1) 🗌 Re	esponsive to communication(s) filed on	<u>.</u> .				
2a) <u></u> Th	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
clo	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
4)⊠ Cla	☑ Claim(s) <u>1-9</u> is/are pending in the application.					
4a)	4a) Of the above claim(s) <u>5-9</u> is/are withdrawn from consideration.					
5)□ Cla	5) Claim(s) is/are allowed.					
6)⊠ Cla	Claim(s) <u>1-4</u> is/are rejected.					
7) <u></u> Cla	Claim(s) is/are objected to.					
8) <u></u> Cla	aim(s) are subject to restriction and/or	election requirement.				
Application	Papers					
9)∐ The	e specification is objected to by the Examiner					
10)⊠ The drawing(s) filed on <u>23 June 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Ар	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)∐ The	e oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.			
Priority und	er 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
^ See	the attached detailed Office action for a list of	or the certified copies not receive	a.			
Attachment(s)		🗖 :				
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413) ate			
3) 🗵 Informati	on Disclosure Statement(s) (PTO/SB/08) 0(s)/Mail Date <u>12-26-06;6-23-05</u> .	5) Notice of Informal Page 1997.				

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1 to 4, drawn to steel sheet alloy composition and its named product.

Group II, claim(s) 5 to 9, drawn to method of hot rolling, cooling, coiling and optional galvanizing.

- 2. The inventions listed as Groups of group I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The common technical feature that Groups I and II share is the alloy composition of claim 1. This composition does not provide a contribution over the prior art as evident by Nakata et al (US Patent 6,632,295) and Funakawa et al (US Patent 6,666,932). Thus, the two groups lack unity of invention, see MPEP 1850.
- 3. During a telephone conversation with Mr John Kelly on July 30, 2007 a provisional election was made with traverse to prosecute the invention of group I, claims 1 to 4. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5 to 9 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1 and 2 are rejected under 35 U.S.C. 102(a) as being anticipated by Nakata et al. (US Patent 6,632,295).
- 7. Nakata et al. disclose ferritic steel alloy sheet example No. 6 in Table 1 of columns 7-8 that meets the claimed composition and when calculated, satisfy the claimed equations.
- 8. Even though prior art does not teach the equations recited by the claims, such would not be a patentable difference since it is held that there is no invention in the discovery of a general formula if it covers a composition in the prior art.
- 9. Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(a) as being anticipated by Funakawa et al (US Patent 6,666,932).
- 10. Funakawa et al disclose specific ferritic steel alloy sheet examples in tables 1, 6, 7, 8 and 12 that meet the claimed composition and when calculated, satisfy the claimed equations.

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11. Even though prior art does not teach the equations recited by the claims, such would not be a patentable difference since it is held that there is no invention in the discovery of a general formula if it covers a composition in the prior art.

12. Moreover, Funakawa et al in claims 23 to 31 in column 26 characterizes steel sheet for automotive component coated with zinc, which meets claim 4.

## Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakata et al. (US Patent 6,632,295) or Funakawa et al (US Patent 6,666,932) in view of Sudo et al (US Patent 4,388,122)
- 15. Funakawa et al and Nakata et al, each disclose specific ferritic steel alloy sheets that meet the claimed composition and when calculated, satisfy the claimed equations but fail to include small amounts Ca, REM, Cu, Ni and/or B as recited by claim 3. It is, however, well known in the art that these elements are common additives conventionally added to steel to further enhance mechanical properties, as evident by Sudo et al on lines 27 to 52 in column 4. Since improved mechanical properties are desired by primary prior art, then it would be an obvious modification well within the skill

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of the artisan to incorporate these elements in small amounts to produce no more than the known and expected effect from such an addition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/<u>Deborah Yee</u>/ Primary Examiner Art Unit 1742